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| APPLICATION NO.                           | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|---|-----------------|----------------------|-------------------------|------------------|
| 09/838,011                                | 04/19/2001      | Alexander Kobilansky | US010210                | 3719             |
| 24737 75                                  | 590 04/28/2004  |                      | EXAMINER                |                  |
| PHILIPS INTELLECTUAL PROPERTY & STANDARDS |                 |                      | COUSO, YON JUNG         |                  |
| P.O. BOX 3001<br>BRIARCLIFF               | MANOR, NY 10510 |                      | ART UNIT                | PAPER NUMBER     |
|   | •               |                      | 2625                    | 1—               |
|   |                 |                      | DATE MAILED: 04/28/2004 | 5                |

Please find below and/or attached an Office communication concerning this application or proceeding.

| -:  | Application No.  | Applicant(s)  |         |
|---|--|---|---------|
|   | 09/838,011   | KOBILANSKY ET AL.   |         |
| Office Action Summary   | Examiner   | Art Unit  |         |
|   | Yon Couso  | 2625  |         |
| - The MAILING DATE of this communication ap   | pears on the cover sheet   | with the correspondence address   | :       |
| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).   | 136(a). In no event, however, may bly within the statutory minimum of the will apply and will expire SIX (6) Mode, cause the application to become   | a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this communication (35 U.S.C. § 133). | cation. |
| Status  |  |   |         |
| 1) Responsive to communication(s) filed on 19 A   | A <i>pril 2001</i> .   |   |         |
| 2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi   | s action is non-final.   |   |         |
| 3) Since this application is in condition for allowed closed in accordance with the practice under the condition of the co | •  | •   | ts is   |
| Disposition of Claims   |  |   |         |
| 4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or   | awn from consideration.  |   |         |
| Application Papers  |  |   |         |
| 9)☐ The specification is objected to by the Examina  10)☒ The drawing(s) filed on 19 April 2001 is/are: a  Applicant may not request that any objection to the  Replacement drawing sheet(s) including the correct  11)☐ The oath or declaration is objected to by the E  | a) accepted or b) objusted or b) obj | ance. See 37 CFR 1.85(a).<br>g(s) is objected to. See 37 CFR 1.1  |         |
| Priority under 35 U.S.C. § 119  |  |   |         |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list   | its have been received. Its have been received in prity documents have been ut (PCT Rule 17.2(a)).   | Application No n received in this National Stage  |         |
| Attachment(s)   | -  |   |         |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date   | Paper No   | Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)  |         |

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10, 12-17, 19 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Linford et al.

As to claim 1, Linford teaches a method of repairing an image, comprising the steps of: presenting a user with the image (edited image at column 21, line 57); and presenting the user with an image defect matte (column 21, lines 58-62) that allows the user to graphically specify one or more changes to be made to the image (column 22, lines 57-61).

As to claim 2, Linford teaches the image defect matte in an array of elements, wherein each of the elements assuming one of several possible values representing different degrees of repair (column 10, lines 13-16).

As to claim 3, Linford teaches each element of the image defect matte corresponds to one or more pixels in the image (312 in figure 14B).

As to claim 4, Linford teaches the image defect matte indicates each of the different possible values using a color mapping (highlight at column 21, lines 58-62).

As to claim 5, Linford teaches the image defect matte indicates a region of the image having one of the different possible values using a boundary outline (figures 14C and 14D).

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As to claim 6, Linford teaches the changes to be made to the image are not implemented until initiated by the user (column 22, lines 57-61).

As to claim 7, Linford teaches one or more graphical tools that allow the user to modify the image defect matte before the changes are made to the image (column 22, line 57-column 23, line 19).

As to claim 8, Linford teaches. the image defect matte indicates portions of an original image that have been repaired in one or more previous iteration (highlight at column 21, lines 58-62).

As to claim 9, Linford teaches the image defect matte indicates portions of an original image having one or more proposed modifications for a current iteration (figure 14A).

As to claim 10, Linford teaches one or more changes to be made to the image is a further repair of a selected region of the image (column 22, lines 57-61).

As to claim 12, Linford teaches the one or more changes to be made to the image is a cancellation of a previous repair of a selected region of the image (column 22, lines 57-61).

As to claim 13, Linford teaches the step of prioritizing the image based on a defect metric that quantifies a degree of defects in the image (column 22, lines 64-column 23, line 3).

As to claim 14, Linford teaches a system for repairing an image, comprising: a memory that stores computer-readable code (26 in figure 1); and a processor operatively coupled to the memory, the processor configured to implement the

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computer-readable code (22 in figure 1), the computer-readable code configured to: present a user with the image (edited image at column 21, line 57)); and present the user with an image defect matte (column 21, lines 58-62) that allows the user to graphically specify one or more changes to be made to the image (column 22, lines 57-61).

As to claim 15, Linford teaches the image defect matte in an array of elements, wherein each of the elements assuming one of several possible values representing different degrees of repair (column 10, lines 13-16).

As to claim 16, Linford teaches each element of the image defect matte corresponds to one or more pixels in the image (312 in figure 14B).

As to claim 17, Linford teaches the processor is further configured to provide one or more graphical tools that allow the user to modify the image defect matte before the changes are made to the image (column 22, line 57-column 23, line 3).

As to claim 19, Linford teaches the processor is further configured to prioritize the image based on a defect metric that quantifies a degree of defects in the image (column 22, line 64-column 23, line 3).

As to claim 20, Linford teaches an article of manufacture for repairing an image, comprising: a computer readable medium having computer readable code means embodied thereon, the computer readable program code means comprising: a step to present a user with the image (edited image at column 21, line 57); and a step to present the user with an image defect matte (column 21, lines 58-62) that allows the

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user to graphically specify one or more changes to be made to the image (column 22, lines 57-61).

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Linford et al in view of Shimada et al.

The arguments advanced in paragraph 1 above as to the applicability of the reference are incorporated herein.

As to claims 11 and 18, Linford teaches video camera (column 5, lines 44-51) which generates stream of image frames. However, Linford does not teach details on maintaining the selected region of the image for a subsequent or previous frame to repair a steady defect in the image. Shimada teaches repairing a pixel associated with

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motion-picture process, in which Shimada discloses maintaining the selected region of the image for a subsequent or previous frame to repair a steady defect in the image (background of invention column 2, lines 42-44, inter-frame technique). Inter-frame technique as described in the Shimada's reference is old and well known in the art that it would have been obvious to one of ordinary skills in the art to incorporate Shimada's defect correction using inter-frame technique into Linford, which uses video camera for the source of image, which would enhance the overall image quality in the system.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hawthorne et al, Pourjavid, Kundu, and Blank are also cited.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (703) 305-4779. The examiner can normally be reached on 8:30 am –5:00 pm from Monday to Friday

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached on (703) 308-5246. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3800.

Yjc April 23, 2004

YON J. COUSÓ RIMARY EXAMINER